

# VINEYARD WIND

## PARTNERSHIP WITH LOCAL & GLOBAL EXPERTISE



- **Leading provider** of renewable power in the United States with more than **6,500 MW** of owned and operated facilities in 22 states.
- Part of Iberdrola, with 10 GW of offshore wind under development, construction, or operations.



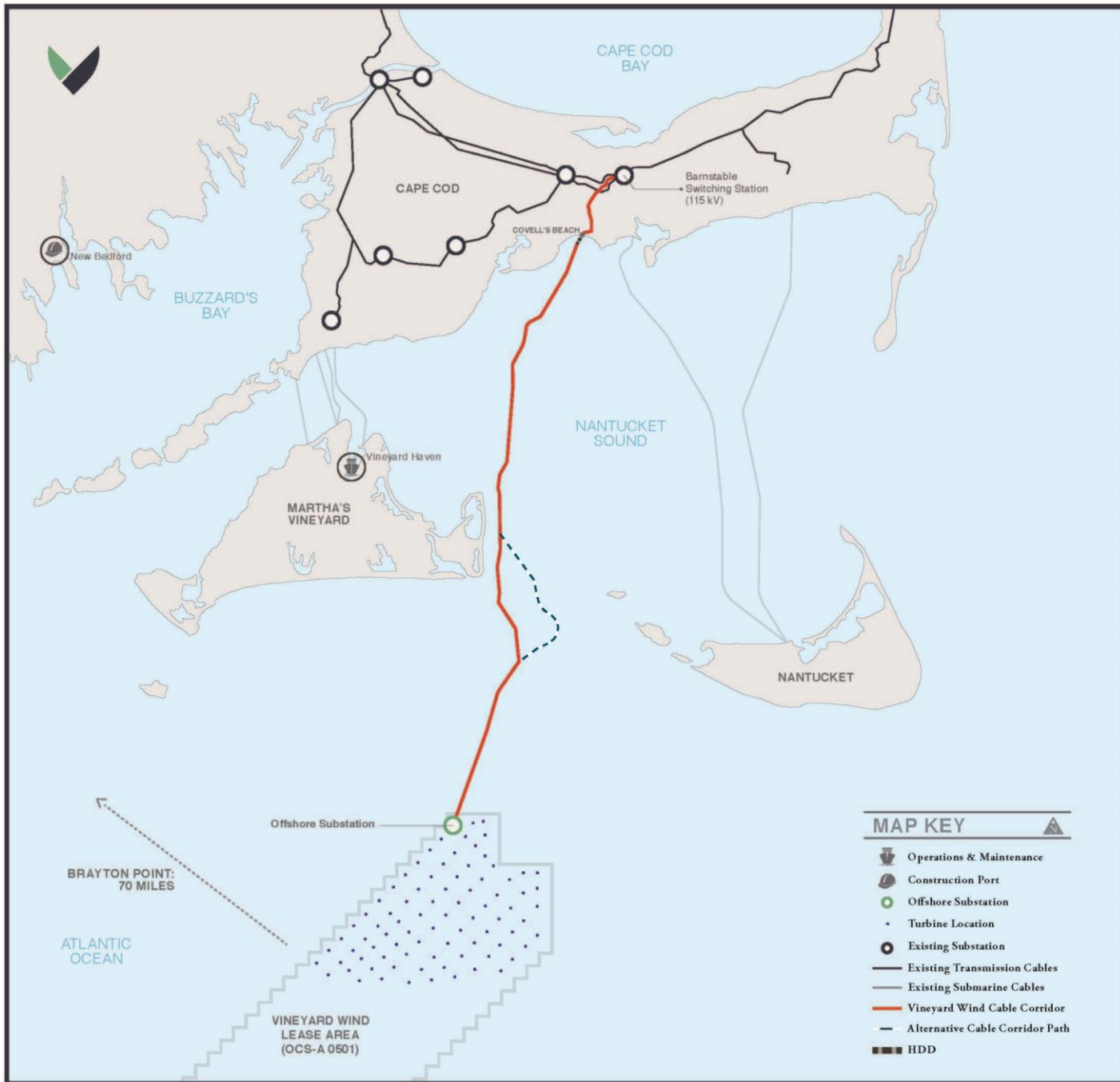
COPENHAGEN INFRASTRUCTURE PARTNERS

- **One of the world's leading Renewable Infrastructure Fund Management** companies with over \$8 billion under management
- 6,000+ MW offshore development portfolio globally



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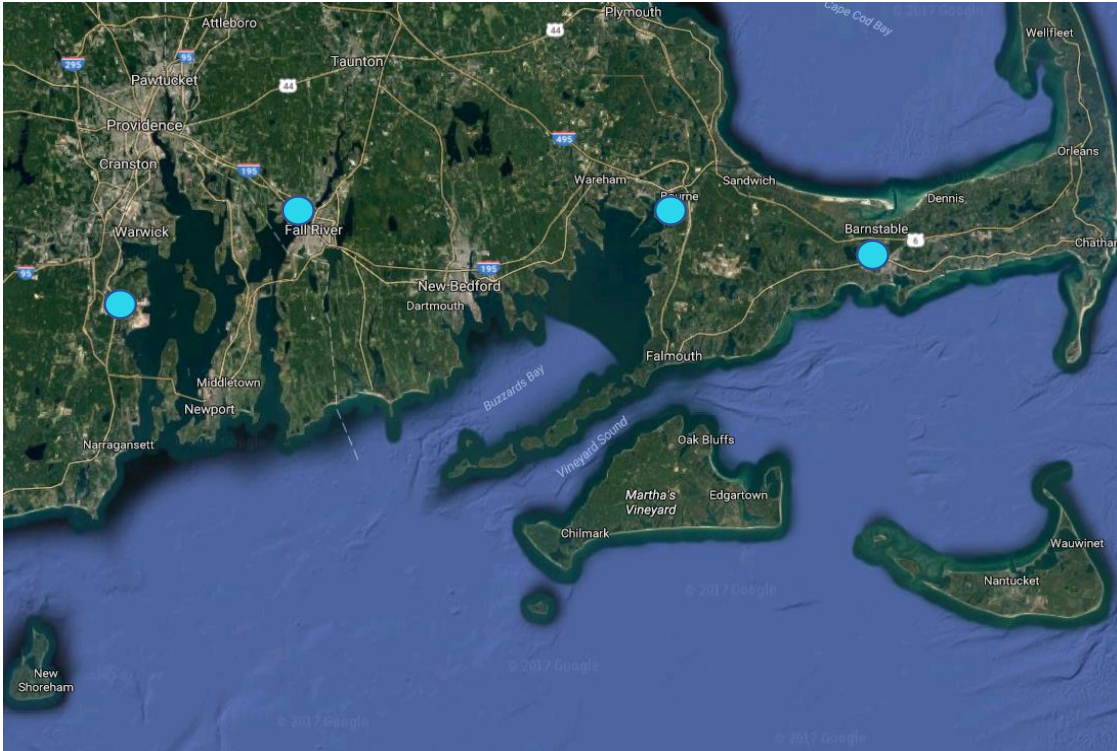
- **Technical team** with experience from some of the earliest and largest offshore wind farms in the world
- **Local staff** with first-hand knowledge of the waters, shores, and communities where the project is located
- **Community partnership** with Vineyard Power



# VINEYARD WIND I

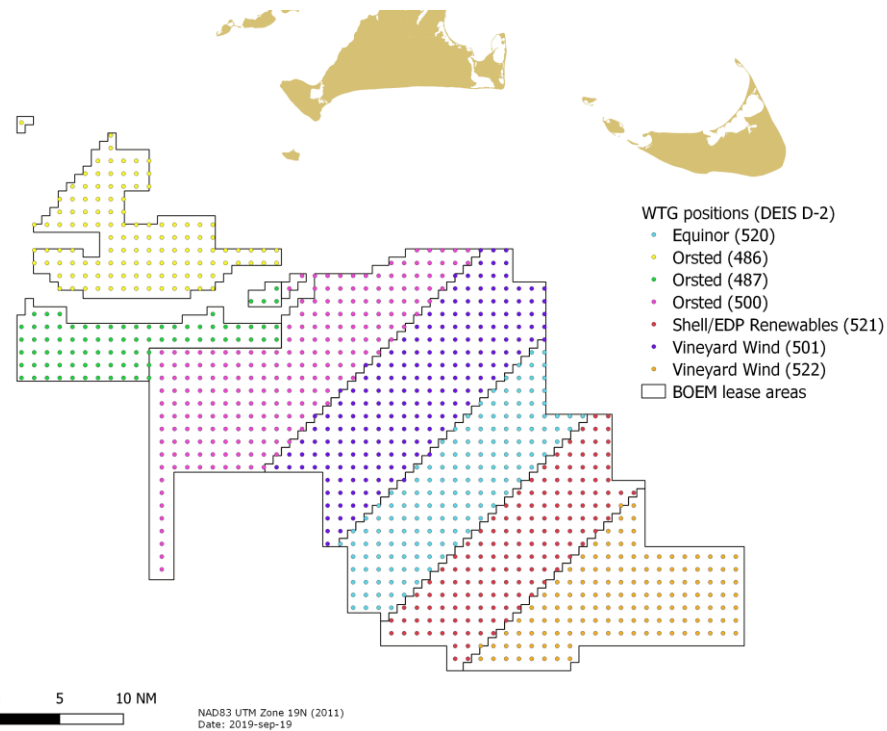
- **Massachusetts “83C” PPAs:** Awarded 2018
- **Generation Capacity:** 800 MW
  - Energy for over 400,000 homes and businesses: ~3% of New England load
  - Emissions avoidance equivalent to 325,000 cars off the road
- **Turbine area:** ~15 miles from Martha’s Vineyard and Nantucket
  - 84 turbines on monopiles
- **Electrical interconnection:** Barnstable Switch Substation, 115kV
- **Permitting:**
  - State and local permitting nearing completion
  - Federal permit delayed due to DOI considering impacts of larger/faster-than-anticipated build-out of industry

## NEEDED: ABILITY TO CONNECT 1000s MW INTO SOUTHERN NEW ENGLAND



- **Planning and investment in the onshore grid is needed in order to achieve offshore wind goals**
  - There are only so many places on the coast that can receive 100s of MWs at a time
  - Almost all of these locations already now have OSW interconnect applications
- Independent offshore transmission development is not a solution:
  - Number of cables/connections is a technical limitation, not commercial or regulatory limit
  - Separating transmission from generation introduces many challenges that only increase costs (see European experience)
  - Most cost-effective solution is not always few, large connections

## NEEDED: REGULATORY CERTAINTY ON DESIGN REQUIREMENTS



Example of turbine lay-out across entire RI-MA Wind Energy Area (WEA) if alternative lay-out contemplated in Vineyard Wind DEIS was imposed across entire WEA

- **Clear direction on turbine layout requirements**, if there are to be any, is needed at minimum
- BOEM’s “Smart from Start” leasing program (2010) was supposed to facilitate later permitting
  - “We believe [smart from the start] will result in a more efficient and coordinated permitting process for offshore wind,” Director Bromwich
- But BOEM provided no directives on key issues such as turbine lay-out
- BOEM has now paused project permits to take on an industry-wide review
- Regulators and stakeholders need to quickly decide what is to be required in order to avoid stalling design and permitting of projects